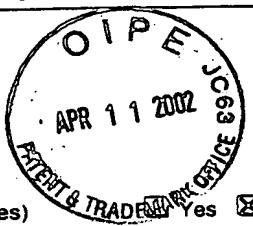


RECORDATION FORM COVER SHEET

PATENTS ONLY

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Manjula Koppuravuri

2. Name and address of receiving party(ies):

Name: NCR CorporationAddress: 1700 South Patterson Blvd.

Additional names(s) of conveying party(ies)

3. Nature of conveyance:

| | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____ | |

Execution Date: January 2, 2002 Yes N

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No. 09/977,038Filing date October 12, 2001

B. Patent No.(s)

Additional numbers

 Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John D. CowartRegistration No. 38,415Address: NCR Corporation

Law Department IP WHQ-4W

1700 South Patterson Blvd.

City: Dayton State/Prov.: OHCountry: U.S.A. ZIP: 454796. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00 Enclosed - Any excess or insufficiency should be credited or debited to deposit account Authorized to be charged to deposit account

8. Deposit account number:

50-1673 (10150)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Dan C. Hu, Reg. No. 40,025
January 8, 2002

Name of Person Signing

Signature

3

Dat

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

WHEREAS, the undersigned inventor(s), along with Douglas P. Brown and Jeetendra Chaware, hereinafter called the "Assignor", has invented a new and useful invention entitled:

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for which reference a full description is here made in an application for Letters Patent of the United States Serial No. 09/977,038, filed October 12, 2001.

WHEREAS, NCR CORPORATION, a Maryland Corporation, having a place of business in Dayton, Ohio, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the

Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner For Patents is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

Dated: 02 JAN, 2002

Ki Manjula
MANJULA KOPPURAVURI



Attorney's Docket No.: 10150 (NCRC-0063-US)

PATENT

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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the specification of which

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| X |
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is attached hereto.
was filed on 10/12/2001 as
United States Application Number 09/977.038
or PCT International Application Number _____
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's certificate Issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| <u>Prior Foreign Application(s):</u> | | | <u>Priority Claimed</u> | |
|--------------------------------------|------------------|-------------------------------|-------------------------|-----------|
| <u>Number</u> | <u>(Country)</u> | <u>(Day/Month/Year Filed)</u> | <u>Yes</u> | <u>No</u> |
| <u>Number</u> | <u>(Country)</u> | <u>(Day/Month/Year Filed)</u> | <u>Yes</u> | <u>No</u> |

I hereby claim the benefit under title 35, United States Code, Section 119(e) of the United States provisional application(s) listed below:

| | |
|-----------------------------|----------------------|
| <u>(Application Number)</u> | <u>(Filing Date)</u> |
| <u>(Application Number)</u> | <u>(Filing Date)</u> |

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

| | | |
|-----------------------------|--------------------|--|
| <u>(Application Number)</u> | <u>Filing Date</u> | <u>(Status-patented, pending, abandoned)</u> |
|-----------------------------|--------------------|--|

I hereby appoint Timothy N. Trop, Reg. No. 28,994; Fred G. Pruner, Jr., Reg. No. 40,779, and Dan C. Hu, Reg. No. 40,025; my patent attorneys, of TROP, PRUNER & HU, P.C., with offices located at 8554 Katy Freeway, Ste. 100, Houston, TX 77024, telephone (713) 468-8880, and Michael Chan, Reg. No. 33,663; Douglas Foote, Reg. No. 31,013; James M. Stover, Reg. No. 32,759; Paul W. Martin, Reg. No. 34,870; John D. Cowart, Reg. No. 38,415; Charlene Stukenborg, Reg. No. 40,832; my patent attorneys, of NCR Corporation; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to John D. Cowart, NCR Corporation, Law Department IP WHQ-4W, 1700 S. Patterson Blvd., Dayton, OH 45479 and direct telephone calls to John D. Cowart, (858) 485-4903.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | |
|--|------------------------------|
| Full Name of Sole/First Inventor: Douglas P. Brown | |
| Inventor's Signature: | Date: |
| Residence: San Diego, CA 92127 | Citizenship: U.S. |
| Post Office Address: 17095 Via Del Campo, San Diego, California 92127 | |
| Full Name of Second/Joint Inventor: Jeetendra Chaware | |
| Inventor's Signature: | Date: |
| Residence: Hyderabad, Andhra Pradesh, INDIA | Citizenship: INDIA |
| Post Office Address: 3-7-218, Harsha Towers, Trimughery Post, Secunderabad - 500 015, A.P., INDIA | |
| Full Name of Second/Joint Inventor: Manjula Koppuravuri | |
| Inventor's Signature: <i>K. Manjula.</i> | Date: <i>02/01/2002</i> |
| Residence: Secunderabad, Andhra Pradesh, INDIA | Citizenship: INDIA |
| Post Office Address: 33-56, Lake Villa Apartments, RTC Colony, Gunrock Road, Secunderabad - 500 015, A.P., INDIA | |